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1 A survey on peer-to-peer key management for mobile ad hoc networ
Johann Van Der Merwe, Dawoud Dawoud, Stephen McDonald
April 2007 **Computing Surveys (CSUR)** , Volume 39 Issue 1
Publisher: ACM Request Permissions
Full text available: Pdf (872.71 KB) Additional Information: full citation, abstract, referei
Bibliometrics: Downloads (6 Weeks): 120, Downloads (12 Months): 1276, Cita

The article reviews the most popular peer-to-peer key management pro
ad hoc networks (MANETs). The protocols are subdivided into groups ba
design strategy or main characteristic. The article discusses and provide

Keywords: Mobile ad hoc networks, pairwise key management, peer-to
management, security

2 Efficient self-healing group key distribution with revocation capability
Donggang Liu, Peng Ning, Kun Sun
October 2003 **CCS '03:** Proceedings of the 10th ACM conference on Comput
communications security
Publisher: ACM Request Permissions
Full text available: Pdf (237.61 KB) Additional Information: full citation, abstract, referei
terms
Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 103, Citatic

This paper presents group key distribution techniques for large and dyn
unreliable channels. The techniques proposed here are based on the sel
distribution methods (with revocation capability) recently developed by

Keywords: group key distribution, key management, self-healing

3 SPINS: security protocols for sensor networks
Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler
September 2002 **Wireless Networks** , Volume 8 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: Pdf (213.37 KB) Additional Information: full citation, abstract, referei
terms
Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 228, Citatic

Wireless sensor networks will be widely deployed in the near future. Wh
has focused on making these networks feasible and useful, security has
attention. We present a suite of security protocols optimized for sensor

Keywords: MANET, authentication of wireless communication, cryptogr
hoc networks, secrecy and confidentiality, secure communication protoc
networks

4 Provably Secure Timed-Release Public Key Encryption
Jung Hee Cheon, Nicholas Hopper, Yongdae Kim, Ivan Osipkov
March 2008 **Transactions on Information and System Security (TISSE**
2
Publisher: ACM Request Permissions
Full text available: Pdf (1.46 MB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 455, Citatic

A timed-release cryptosystem allows a sender to encrypt a message so
intended recipient can read it only after a specified time. We formalize t
secure timed-release public-key cryptosystem and show that, if a third |

Keywords: authenticated encryption, key-insulated encryption, timed-ı

5 SPINS: security protocols for sensor networks
Adrian Perrig, Robert Szewczyk, Victor Wen, David Culler, J. D. Tygar
July 2001 **MobiCom '01:** Proceedings of the 7th annual international confe
computing and networking
Publisher: ACM Request Permissions
Full text available: Pdf (242.17 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 107, Citatic

As sensor networks edge closer towards wide-spread deployment, secui
a central concern. So far, much research has focused on making sensor
and useful, and has not concentrated on security. We present a suite of

6 Zero-interaction authentication
Mark D. Corner, Brian D. Noble
September 2002 **MobiCom '02:** Proceedings of the 8th annual international
Mobile computing and networking
Publisher: ACM Request Permissions
Full text available: Pdf (273.30 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 112, Citatior

Laptops are vulnerable to theft, greatly increasing the likelihood of expc
files. Unfortunately, storing data in a cryptographic file system does not
problem. Such systems ask the user to imbue them with long-term auth

Keywords: cryptographic file systems, mobile computing, stackable file transient authentication

7 The architecture and performance of security protocols in the ensem communication system: Using diamonds to guard the castle
August 2001 **Transactions on Information and System Security (TISS**
Publisher: ACM Request Permissions
Full text available: Pdf (418.73 KB) Additional Information: full citation, abstract, refere terms, review

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 88, Citatior

Ensemble is a Group Communication System built at Cornell and the He It allows processes to create *process groups* within which scalable reliat multicast and point-to-point communication are supported. The system

Keywords: Group communication, security

8 A public-key based secure mobile IP
John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, N Castineyra, Stephen Kent
October 1999 **Wireless Networks** , Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: Pdf (255.65 KB) Additional Information: full citation, references, cite

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 93, Citation

9 ID-based encryption for complex hierarchies with applications to forw broadcast encryption
Danfeng Yao, Nelly Fazio, Yevgeniy Dodis, Anna Lysyanskaya
October 2004 **CCS '04:** Proceedings of the 11th ACM conference on Comput communications security
Publisher: ACM Request Permissions
Full text available: Pdf (220.00 KB) Additional Information: full citation, abstract, refere terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 160, Citatic

A forward-secure encryption scheme protects secret keys from exposur keys with time. Forward security has several unique requirements in hie based encryption (HIBE) scheme: (1) users join dynamically; (2) encryr

Keywords: ID-Based encryption, broadcast encryption, forward securit

10 Key management for encrypted broadcast
Avishai Wool
May 2000 **Transactions on Information and System Security (TISSEC**
Publisher: ACM Request Permissions
Full text available: Pdf (220.36 KB) Additional Information: full citation, abstract, refere

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 90, Citation

We consider broadcast applications where the transmissions need to be
direct broadcast digital TV networks or Internet multicast. In these appl
number of encrypted TV programs may be very large, but the secure m

Keywords: conditional access, pay-per-view

11 Secure routing based on distributed key sharing in large-scale senso
Taejoon Park, Kang G. Shin
February 2008 **Transactions on Embedded Computing Systems (TECS)**
Publisher: ACM Request Permissions
Full text available: Pdf (579.43 KB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 311, Citatic

Sensor networks, usually built with a large number of small, low-cost se
characterized by their large-scale and unattended deployment, necessit
communications between nearby, as well as remote, sensor nodes for ..

Keywords: Distributed key sharing and servers, attack tolerance, key e
large-scale sensor networks, secure geographic forwarding

12 Design and implementation of a secure wireless mote-based medica
Kriangsiri Malasri, Lan Wang
September 2008 **UbiComp '08:** Proceedings of the 10th international confe
Ubiquitous computing
Publisher: ACM
Full text available: Pdf (635.45 KB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 57, Downloads (12 Months): 295, Citatic

A *medical sensor network* can wirelessly monitor vital signs of humans,
for long-term health care without sacrificing patient comfort and mobilit
network to be viable, its design must protect data privacy and authentic

Keywords: authenticity, health monitoring, privacy, sensor network

13 A charging and rewarding scheme for packet forwarding in multi-hop
Naouel Ben Salem, Levente Buttyán, Jean-Pierre Hubaux, Markus Jakobssc
June 2003 **MobiHoc '03:** Proceedings of the 4th ACM international sympos
hoc networking & computing
Publisher: ACM Request Permissions
Full text available: Pdf (225.98 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 102, Citatic

In multi-hop cellular networks, data packets have to be relayed hop by
mobile station to a base station and vice-versa. This means that the mo
accept to forward information for the benefit of other stations. In this ..

Keywords: ad hoc networks, billing, charging, cooperation, hybrid cellu multi-hop cellular networks, packet forwarding, pricing, security

14 Defending against redirect attacks in mobile IP

Robert H. Deng, Jianying Zhou, Feng Bao

November 2002 **CCS '02:** Proceedings of the 9th ACM conference on Compu
communications security

Publisher: ACM Request Permissions

Full text available: Pdf (266.04 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 98, Citation

The route optimization operation in Mobile IP Version 6 (MIPv6) allows c
any correspondent node to any mobile node and thus eliminates the pro
routing" present in the base Mobile IP Version 4 (MIPv4) protocol. Route

Keywords: authenticated key-exchange, mobile IP, mobile IP security,
secure binding update

15 Fast, secure handovers in 802.11: back to the basis

Rodolphe Marques, André Zúquete

October 2008 **Q2SWinet '08:** Proceedings of the 4th ACM symposium on Q
wireless and mobile networks

Publisher: ACM Request Permissions

Full text available: Pdf (261.96 KB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 123, Citatic

This article presents a fast, secure handover protocol for 802.11 networ
keeps the security functionalities of 802.1X but uses a new reauthentica
promotes fast handovers during reassociations. The reauthentication pr

Keywords: 802.11 roaming, 802.1x authentication, fast handover, fast

16 Quantum cryptography in practice

Chip Elliott, David Pearson, Gregory Troxel

August 2003 **SIGCOMM '03:** Proceedings of the 2003 conference on Applica
technologies, architectures, and protocols for computer commı

Publisher: ACM Request Permissions

Full text available: Pdf (809.93 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 299, Citatic

BBN, Harvard, and Boston University are building the DARPA Quantum I
world's first network that delivers end-to-end network security via high-
Key Distribution, and testing that Network against sophisticated eavesd

Keywords: IPsec, cryptographic protocols, error correction, key agreen
privacy amplification, quantum cryptography, quantum key distribution,

17 A three-party architecture and protocol that supports users with multi

use with location based services
Cameron Ross Dunne, Thibault Candebat, David Gray
July 2008 **ICPS '08:** Proceedings of the 5th international conference on Pe
Publisher: ACM
Full text available: Pdf (509.12 KB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 131, Citatic

In this paper we describe an architecture that supports the secure opera
Based Services (LBSs) over the Internet. In particular, we describe a th
that is used to mutually identify and authenticate users, LBSs, and a ...

Keywords: location based services, mediated identity based cryptograp
protocols, security

18 Secure and low latency handoff scheme for proxy mobile IPv6
HyunGon Kim, ByeongKyun Oh
September 2008 **Mobility '08:** Proceedings of the International Conference
Technology, Applications, and Systems
Publisher: ACM Request Permissions
Full text available: Pdf (284.19 KB) Additional Information: full citation, abstract, referei

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 44, Citatior

Recently wireless 3rd generation mobile telecommunication service prov
showing strong interest in network-based localized mobility managemer
prominent way to support IP mobility to mobile nodes, because it ...

Keywords: AAA, MAG, low latency handoff, proxy mobile IPv6, session

19 The security of vehicular ad hoc networks
Maxim Raya, Jean-Pierre Hubaux
November 2005 **SASN '05:** Proceedings of the 3rd ACM workshop on Securi
sensor networks
Publisher: ACM Request Permissions
Full text available: Pdf (283.96 KB) Additional Information: full citation, abstract, referei
terms

Bibliometrics: Downloads (6 Weeks): 86, Downloads (12 Months): 658, Citatic

Vehicular networks are likely to become the most relevant form of mobi
networks. In this paper, we address the security of these networks. We
threat analysis and devise an appropriate security architecture. We also

Keywords: security, vehicular ad hoc networks

20 Network layer access control for context-aware IPv6 applications
Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nig
July 2003 **Wireless Networks** , Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: Pdf (3.57 MB) Additional Information: full citation, abstract, referei

terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 86, Citation

As part of the Lancaster GUIDE II project, we have developed a novel w
point protocol designed to support the development of next generation
aware applications in our local environs. Once deployed, this architectur

Keywords: authentication, mobile IPv6, public access point, security, v

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